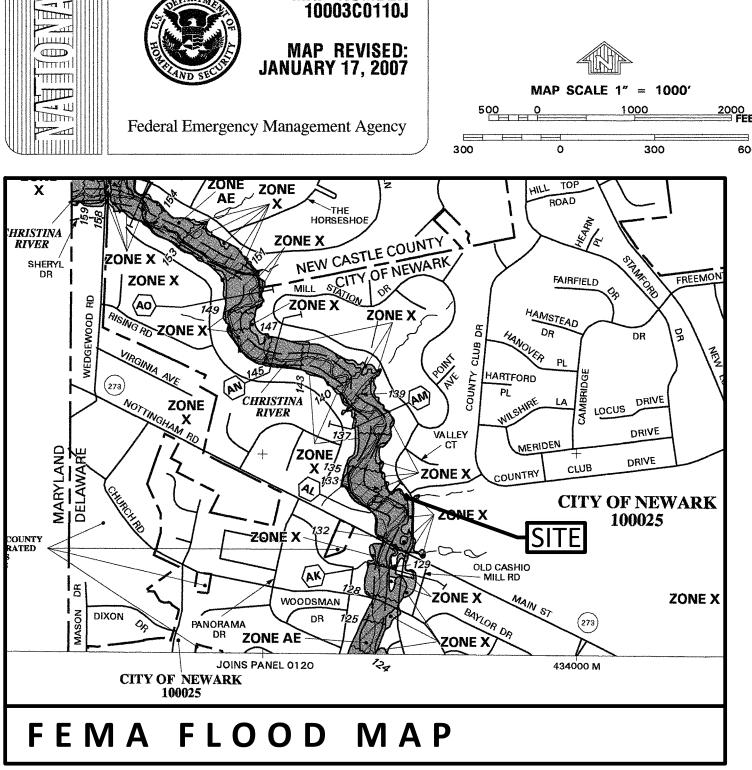
CITY OF NEWARK

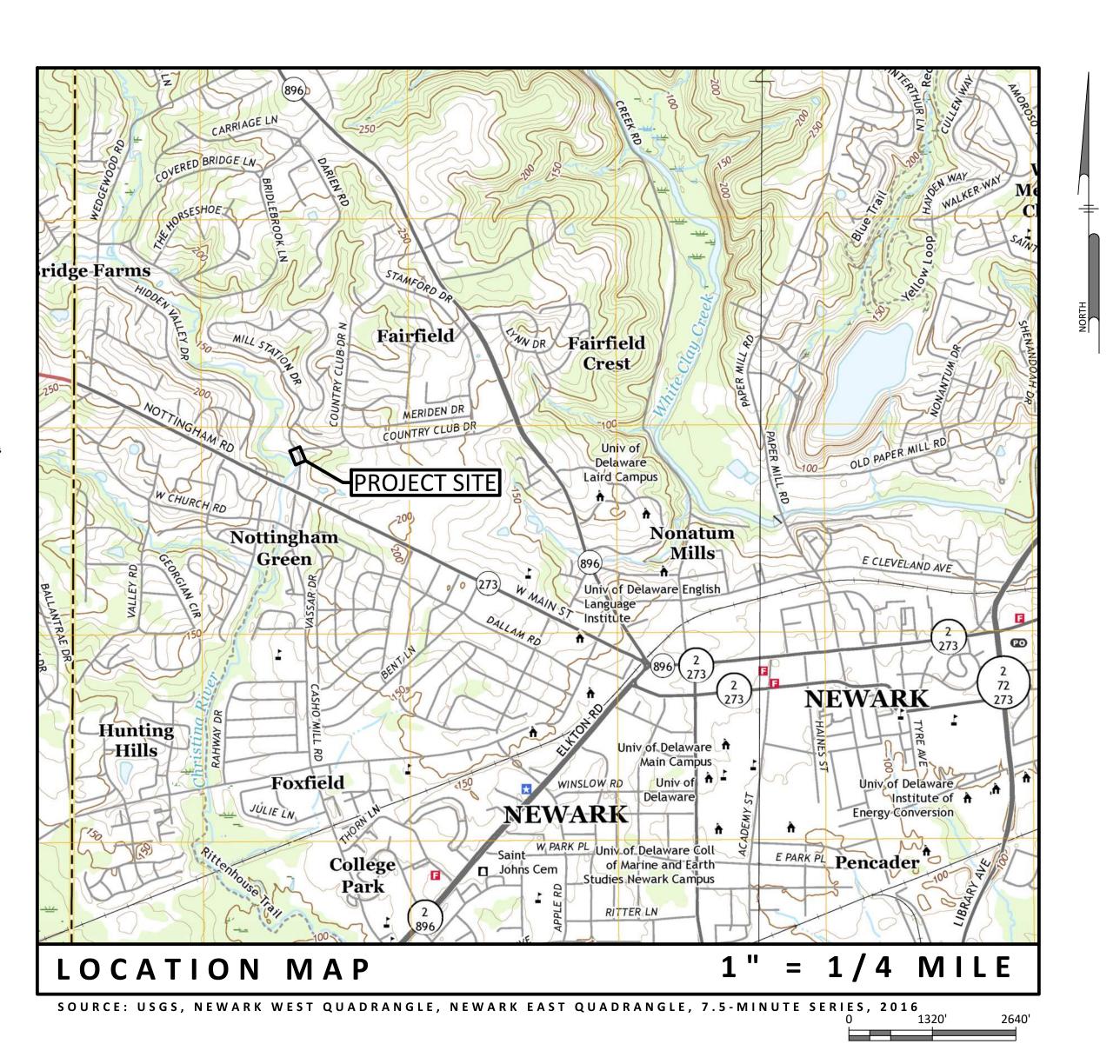
PUBLIC WORKS AND WATER RESOURCES DEPARTMENT NEW CASTLE COUNTY, DELAWARE

FIRM FLOOD INSURANCE RATE MAP NEW CASTLE COUNTY, DELAWARE AND INCORPORATED AREAS PANEL 110 OF 475 (SEE MAP INDEX FOR FIRM PANEL LAYOUT) CONTAINS: COMMUNITY NUMBER PANEL SUFFIX NEW CASTLE COUNTY, UNINCORPORATED AREAS NEWARKCITY OF 100025 0110 J Notice to User: The Map Number shown below should be used when placing map orders; the Community Map Number shown when placing map orders; the Community or the subject community. MAP NUMBER 10003C0110J MAP REVISED: JANUARY 17, 2007 Federal Emergency Management Agency

NW BOOSTER STATION GENERATOR

CONTRACT NO. 21-01





SITE DATA

TAX PARCEL NO.
 18-006.00-011
 GRANT NUMBER: PDMC-PJ-03-DE-2010-001
 SOURCE OF TITLE: DEED RECORD Z 74, PAGE 463 (M.F.# 000706)
 PROPERTY ADDRESS: 109 DELREM DRIVE NEWARK DE 19713

6. FEMA 100 YEAR ELEVATION: 132.7

7. GROSS LOT AREA: 0.433+ ACRES

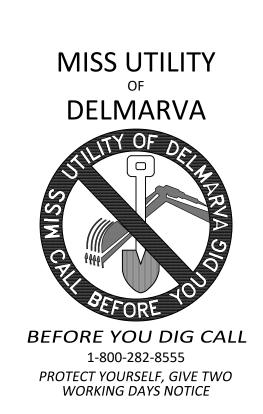
- 8. ACCORDING TO FEMA FIRM 10003C0110J, PANEL 110 OF 475, DATED JANUARY 17, 2007 THE WATER BOOSTER STATION SITE IS WITHIN ZONE X OF THE 100 YEAR FLOODPLAIN THE BASE FLOOD ELEVATION (BFE) IS 133.0.
- THE STANDBY GENERATOR CONSTRUCTION, EQUIPMENT, AND MATERIALS SHALL COMPLY WITH THE CITY OF NEWARK STANDARDS AND SPECIFICATIONS.
- 10. BUILDING AND MECHANICAL SYSTEM CONSTRUCTION SHALL COMPLY WITH CITY OF NEWARK BUILDING CODE.
- 11. TRAFFIC CONTROL DURING CONSTRUCTION SHALL COMPLY WITH THE DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) FOR STREETS AND HIGHWAYS.

DE STATE PLANE (NAD83)

- 12. CONSTRUCTION WITHIN ROAD RIGHT OF WAY
- 12.A. ALL MATERIALS AND WORKMANSHIP SHALL MEET THE STATE OF DELAWARE STANDARDS AND
- 12.B. ALL DISTURBED AREAS WITHIN THE RIGHT-OF-WAY, AND SUBJECT SITE SHALL BE TOPSOILEO
- 12.C. MISS UTILITY SHALL BE NOTIFIED THREE (3) CONSECUTIVE DAYS PRIOR TO EXCAVATION, AT
- 12.D. ALL SIGNING FOR MAINTENANCE OF TRAFFIC IS THE CONTRACTORS RESPONSIBILITY AND SHALL FOLLOW THE GUIDELINES IN DE MUTCD (LATEST EDITION).
- 13. EXISTING UTILITIES ARE SHOWN IN ACCORDANCE WITH THE BEST AVAILABLE INFORMATION. COMPLETENESS OR CORRECTNESS THEREOF IS NOT GUARANTEED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE UTILITY COMPANIES INVOLVED IN ORDER TO SECURE THE MOST ACCURATE INFORMATION AVAILABLE AS TO UTILITY LOCATION AND ELEVATION. NO CONSTRUCTION AROUND OR ADJACENT TO UTILITIES SHALL BEGIN WITHOUT NOTIFYING THEIR OWNERS AT LEAST 48 HOURS IN ADVANCE. THE CONTRACTOR SHALL TAKE THE NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE AND ANY DAMAGE DONE TO THEM DUE TO THE CONTRACTOR'S NEGLIGENCE SHALL BE IMMEDIATELY AND COMPLETELY REPAIRED AT CONTRACTOR'S EXPENSE. TO LOCATE EXISTING UTILITIES IN THE FIELD PRIOR TO
- 14. THIS PLAN DOES NOT CONTAIN MEASURES NECESSARY FOR OSHA COMPLIANCE AND REQUIREMENTS. ALL CONSTRUCTION ACTIVITY SHALL MEET OSHA REQUIREMENTS.

CONSTRUCTION, THE CONTRACTOR SHALL CONTACT MISS UTILITY OF DELMARVA (TELEPHONE 800-282-8555)

TITLE 1 COVER SHEET 2 SITE PLAN 3 ELECTRICAL PLAN 4 ELECTRICAL DETAILS 5 EROSION & SEDIMENT CONTROL DETAILS	SHEET INDEX				
2 SITE PLAN 3 ELECTRICAL PLAN 4 ELECTRICAL DETAILS	SHEET	TITLE			
3 ELECTRICAL PLAN 4 ELECTRICAL DETAILS	1	COVER SHEET			
4 ELECTRICAL DETAILS	2	SITE PLAN			
	3	ELECTRICAL PLAN			
5 EROSION & SEDIMENT CONTROL DETAILS	4	ELECTRICAL DETAILS			
	5	EROSION & SEDIMENT CONTROL DETAILS			



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ADAPTATION BY THE CITY OF NEWARK FOR TH

ALL CONSTRUCTION SHALL BE COMPLETED IN ACCORDANCE WITH THE LATEST CITY OF NEWARK STANDARDS AND SPECIFICATIONS AN IN COMPLIANCE WITH THE OCCUPATIONAL CASES OF A SHARE STANDARDS AND STANDARD STANDARD STANDARD STANDARD STA

SPECIFIC PURPOSE INTENDED WILL BE AT OWNERS SOLE RISK AND WITHOUT LIABILITY LEGAL EXPOSURE TO THE CITY OF NEWARK

IN COMPLIANCE WITH THE OCCUPATIONS AT IN COMPLIANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 AND THE RULES AND REGULATIONS THERETO.

SCALE: 1" = 1/4 MILE

DRAWN BY: MWF

APPROVED BY:

G001

HEET 1 OF



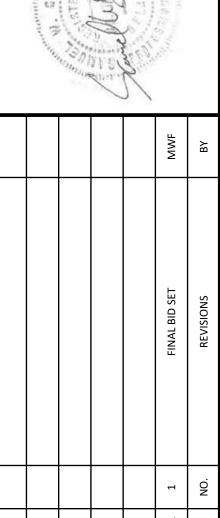
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SES DEPARTMENT
UTH MAIN STREET
C, DELAWARE 19711
02) 366-7000

RESOURCE

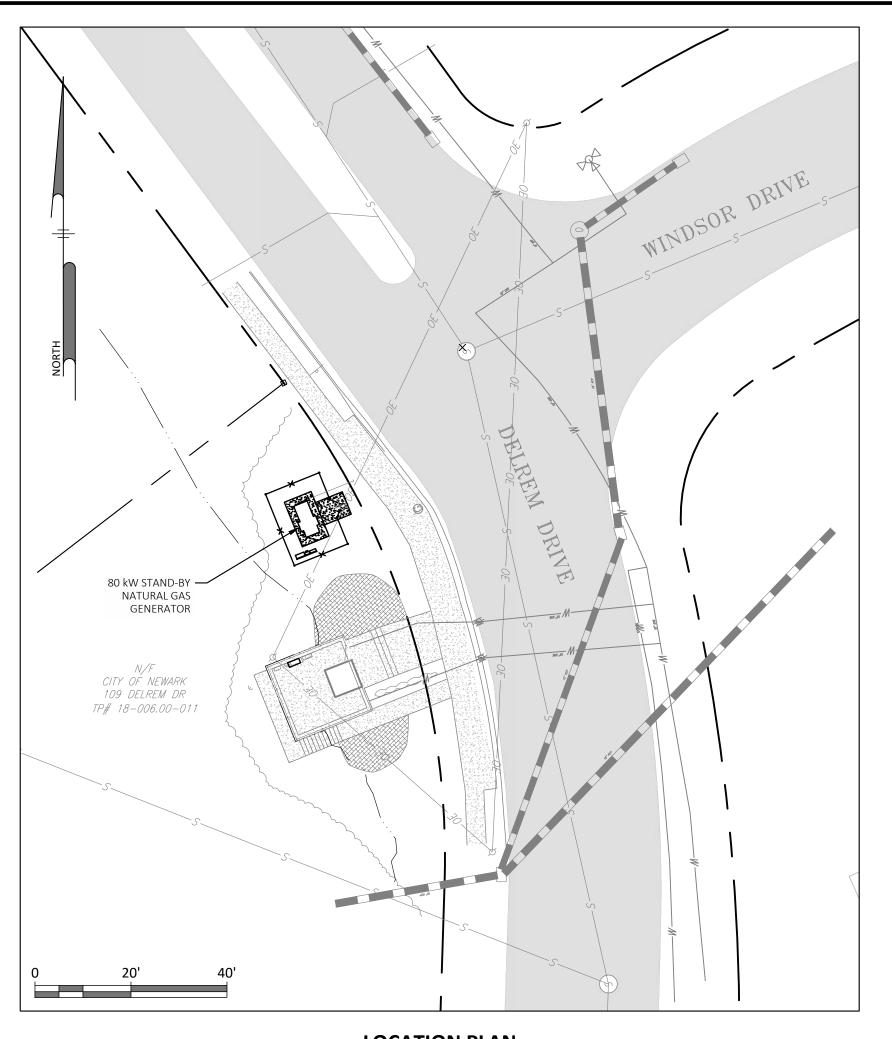
RESOURCE

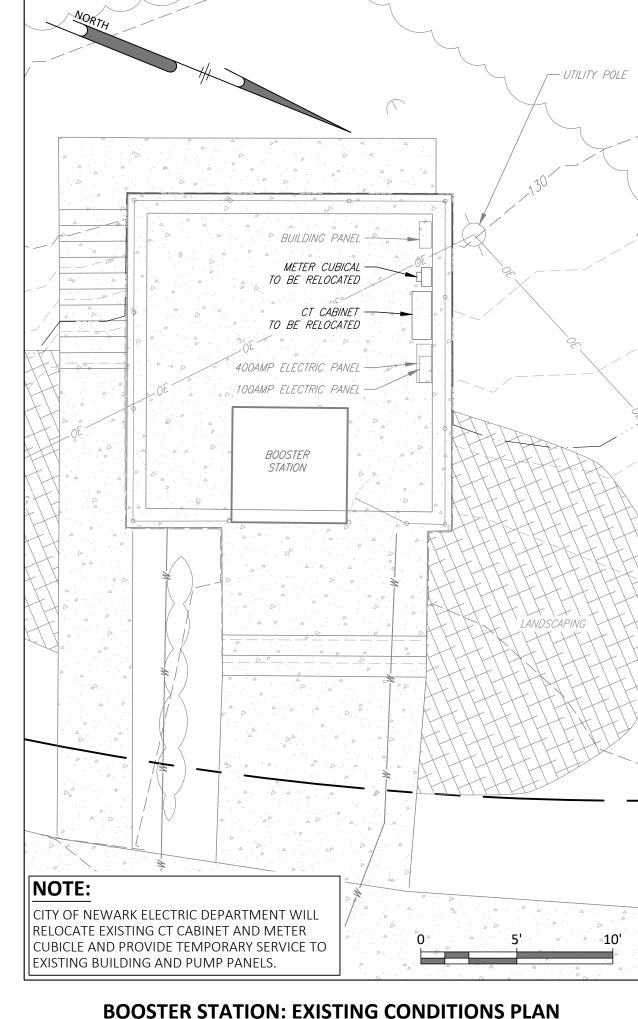
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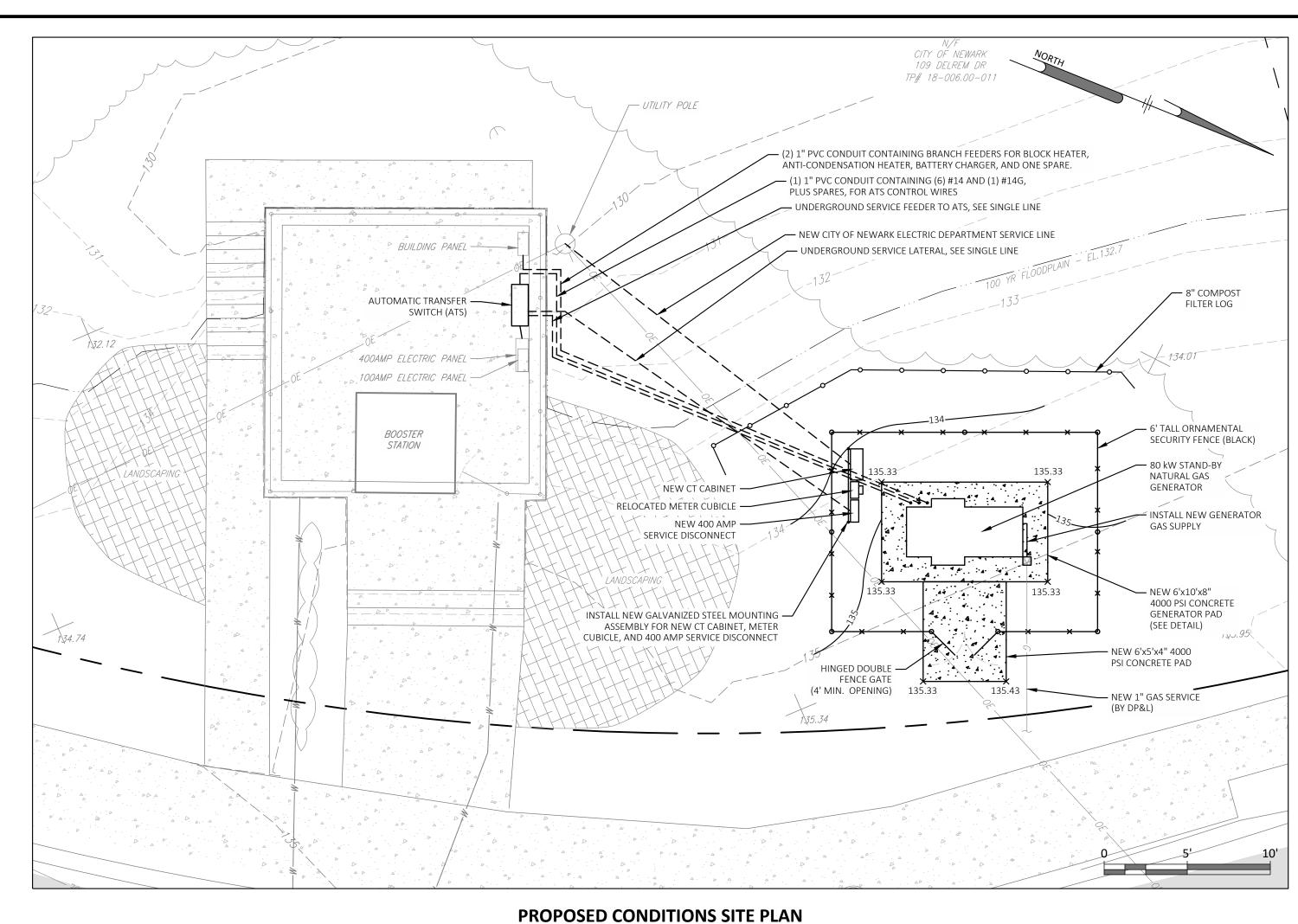
NEWARK, I
(302)



COVER SHEET
109 DELREM DR









1" = 5'

LEGAL AUTHORITY: THE CITY OF NEWARK (CITY) IS A DELEGATED AGENCY OF THE DEPARTMENT OF NATURAL RESOURCES AND ENVIRONMENTAL CONTROL (DNREC) AS DEFINED IN CHAPTER 40, TITLE 7, OF THE DELAWARE CODE. THE DEPARTMENT MAY ENFORCE COMPLIANCE WITH THE AFOREMENTIONED LAW AND THE DELAWARE EROSION AND SEDIMENT CONTROL THROUGH THE CONTRACT DOCUMENTS OR MAY REFER THE PROJECT TO THE DNREC FOR ENFORCEMENT ACTION.

THE CONTRACTOR SHALL CONFORM TO THE EROSION CONTROL AND WATER POLLUTION PRACTICES OUTLINED IN SECTION 457 OF THE CITY OF NEWARK STANDARD SPECIFICATIONS FOR ROADS AND UTILITY CONSTRUCTION- JANUARY 2001 AND THE DELAWARE EROSION AND SEDIMENT CONTROL HANDBOOK - APRIL 2016 OR LATEST EDITION. IF THE CONTRACT DOCUMENTS SHOULD BE FOUND TO CONFLICT WITH ANY APPLICABLE FEDERAL, STATE, OR MUNICIPAL WATER POLLUTION CONTROL LAW. RULE. OR REGULATION. THE MORE STRINGENT WATER POLLUTION CONTROL REQUIREMENTS SHALL APPLY.

DESCRIPTION OF WORK: EROSION AND SEDIMENT CONTROL MEASURES SHAL;L BE APPLIED TO ERODIBLE EARTH MATERIAL EXPOSED BY ANY OF THE CONTRACTOR'S LAND DISTURBING ACTIVITIES ON THE PROJECT. THE WORK SHALL CONSIST OF THE APPLICATION OF TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL ITEMS AS PROVIDED IN THE CONTRACT OR ORDERED BY THE ENGINEER. THE TEMPORARY EROSION CONTROL ITEMS SHALL BE COORDINATED WITH THE PERMANENT EROSION CONTROL ITEMS SPECIFIED. THE ITEMS SHALL INCLUDE, NUT NOT LIMITED TO, THE USE OF BERMS, DIKES, DAMS, SEDIMENT BASINS, TRAPS, GEOTEXTILES, STONE CHECK DAMS, SILT FENCES, PHASED CONSTRUCTION, SPECIAL LAND GRADING METHODS, MATS AND NETS, AGGREGATES, MULCHES, GRASSES, SLOPE DRAINS, CHEMICAL BINDERS, TACKIFIERS, AND OTHER EROSION AND SEDIMENT CONTROL ITEMS OR APPROVED METHODS AS DESIGNATED ON THE CONTRACT DOCUMENTS OR AS DIRECTED BY THE ENGINEER.

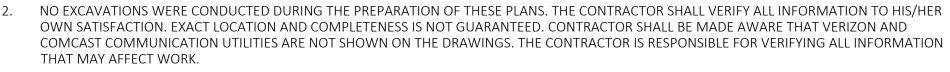
ALL STORM DRAIN INLETS AND CATCH BASINS, WITHIN AND DOWNSTREAM OF THE WORK AREA, SHALL BE PROVIDED WITH APPROPRIATE INLET PROTECTION PRIOR TO COMMENCEMENT OF ANY EXCAVATION OR SITE DISTURBANCE. THE INLET PROTECTION TYPE AND INSTALLATION SHOULD BE IN ACCORDANCE WITH DELAWARE EROSION AND SEDIMENT CONTROL HANDBOOK, OR AS APPROVED BY THE CITY.

- THE CONTRACTOR SHALL INSPECT THE INTEGRITY OF THE PERIMETER CONTROLS PERIODICALLY DURING CONSTRUCTION.
- THE PERIMETER EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED AFTER THE DISTURBED AREA HAS BEEN APPROPRIATELY STABILIZED AND AUTHORIZED BY THE CITY.
- 6. EXISTING TREES, BUSHES, AND SHRUBS SHALL BE PROTECTED BY CONTRACTOR FROM ALL DAMAGE UNLESS IN DIRECT CONFLICT WITH THE WORK.

GENERAL NOTES

- OWN SATISFACTION. EXACT LOCATION AND COMPLETENESS IS NOT GUARANTEED. CONTRACTOR SHALL BE MADE AWARE THAT VERIZON AND COMCAST COMMUNICATION UTILITIES ARE NOT SHOWN ON THE DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL INFORMATION THAT MAY AFFECT WORK.
- AND PRESERVE ANY AND ALL EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES AFFECTING HIS/HER WORK. ITEMS SHALL BE REPLACED WITH THE SAME TYPE OF MATERIAL THAT WAS REMOVED OR DAMAGED DURING CONSTRUCTION OR AS DIRECTED BY THE ENGINEER.
- CONTRACTOR IS RESPONSIBLE FOR CONTACTING "MISS UTILITY" AT 1-800-282-8555, 48 HOURS PRIOR TO ANY EXCAVATION WORK.
- THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE LOCATION AND ACTIVITIES OF HIS FORCES WITH THE OWNER, AND ABUTTING PROPERTY OWNERS TO MINIMIZE INTERFERENCE WITH EXISTING UTILITIES, PEDESTRIAN TRAFFIC, AND PROPERTY ACCESS. PEDESTRIAN AND VEHICLE ACCESS SHALL BE MAINTAINED AT ALL TIMES. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE CITY OF NEWARK DEPARTMENT OF PUBLIC WORKS AND WATER RESOURCES PROJECT MANAGER AT 302-366-7000, 48 HOURS PRIOR TO THE START OF CONSTRUCTION.
- THE PLANS AND SPECIFICATIONS DO NOT INCLUDE PROVISIONS FOR CONSTRUCTION SAFETY. A HEALTH AND SAFETY PLAN MUST BE SUBMITTED BY
- IN THE PLANS AND SPECIFICATIONS IN ACCORDANCE WITH THE (DNREC) DELAWARE EROSION AND SEDIMENT CONTROL HANDBOOK, REV. APRIL 2016, INCLUDING ALL REVISIONS FOLLOWING THIS DATE. PAYMENT TO FURNISH, INSTALL, MAINTAIN AND REMOVE ALL NECESSARY EROSION AND SEDIMENT CONTROL DEVICES/MEASURES SHALL BE INCIDENTAL TO THE WORK BEING PERFORMED PER PLANS.
- 10. ROADWAYS SHALL BE KEPT CLEAN AT ALL TIMES. ALL SOIL SPILLED, DROPPED, WASHED OR TRACKED ONTO ROADWAYS OR OTHER IMPERVIOUS SURFACES MUST BE REMOVED IMMEDIATELY.
- AT THE END OF THE DAY TO CLEAN UP ANY TRASH OR LITTER GENERATED BY THE PERSONNEL AND SUBCONTRACTORS WORKING FOR THE
- 14. THE ENDS OF ALL CURBS ON NORTH COLLEGE AVENUE SHALL BE DEPRESSED FLUSH WITH THE PAVEMENT.
- 15. STAGING AREAS PROPER EROSION AND SEDIMENT CONTROL MEASURES AS DETERMINED BY THE ENGINEER SHALL BE INSTALLED IN ALL STAGING AREAS. ALL AREAS USED BY THE CONTRACTOR FOR STAGING OPERATIONS SHALL BE FULLY RESTORED BY THE CONTRACTOR UPON COMPLETION OF THE CONTRACT. IF THE STAGING AREA IS PAVED, IT SHALL BE RESTORED TO IT'S ORIGINAL CONDITION. IF THE AREA IS UNPAVED, IT SHALL BE RE-GRADED, TOPSOILED, SEEDED AND MULCHED TO THE SATISFACTION OF THE ENGINEER. ALL COSTS ASSOCIATED WITH RESTORATION OF THE STAGING AREA SHALL BE AT THE CONTRACTOR'S EXPENSE. IF THE ENGINEER DETERMINES THAT A SATISFACTORY STAND OF GRASS DOES NOT EXIST AT THE TIME OF FINAL INSPECTION, ALL COSTS ASSOCIATED WITH A REESTABLISHING A SATISFACTORY STAND OF GRASS SHALL BE AT THE CONTRACTOR'S
- 16. IN AREAS WHERE PROPOSED CURB MEETS EXISTING CURB AND TWO CURB TYPES ARE NOT SIMILAR, THE PROPOSED CURB SHALL BE TRANSITIONED IN 10 LINEAR FEET, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. PAYMENT FOR THIS WORK, INCLUDING SAW CUTTING EXISTING CURB SHALL BE INCIDENTAL TO THE PROPOSED CURB ITEM.
- 17. ALL HOT-MIX AND CONCRETE SAW CUTTING SHALL BE FULL DEPTH, UNLESS OTHERWISE NOTED ON THE PLANS, OR AS DIRECTED BY THE ENGINEER.

1.	ALL CONSTRUCTION, UNLESS OTHERWISE NOTED, SHALL BE IN ACCORDANCE WITH THE CITY OF NEWARK DEPARTMENT OF PUBLIC WORKS AND
	WATER RESOURCES DETAIL STANDARDS FOR ROAD AND UTILITY CONSTRUCTION, DETAILS AND SUPPLEMENTS.



THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH HAVE OCCURRED BY HIS/HER FAILURE NOT TO EXACTLY LOCATE

CONTRACTOR PRIOR TO STARTING WORK.

7. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT ALL EXISTING UTILITIES, CURBS, SIDEWALK, PAVING, SHRUBS, FENCING, ETC. ANY AND ALL DAMAGE DONE TO SAME SHALL BE IMMEDIATELY AND COMPLETELY REPAIRED AT CONTRACTOR'S EXPENSE.

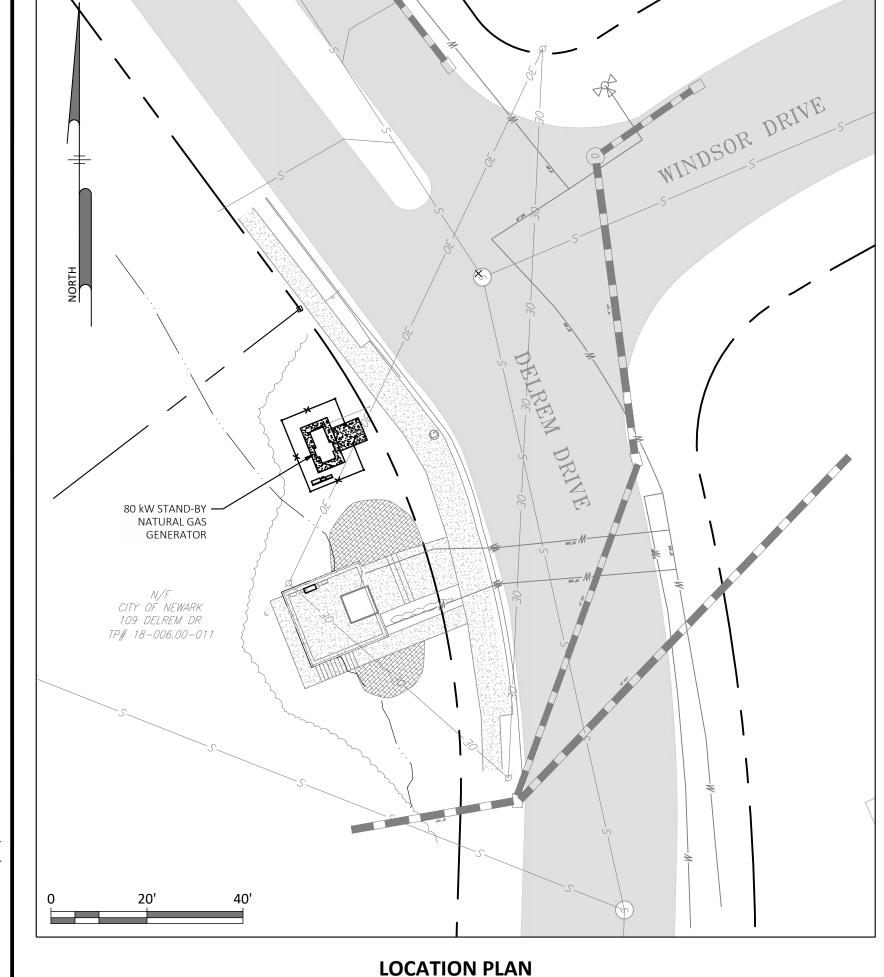
8. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL SEDIMENT AND EROSION CONTROL MEASURES NECESSARY TO CONSTRUCT THE WORK OUTLINED

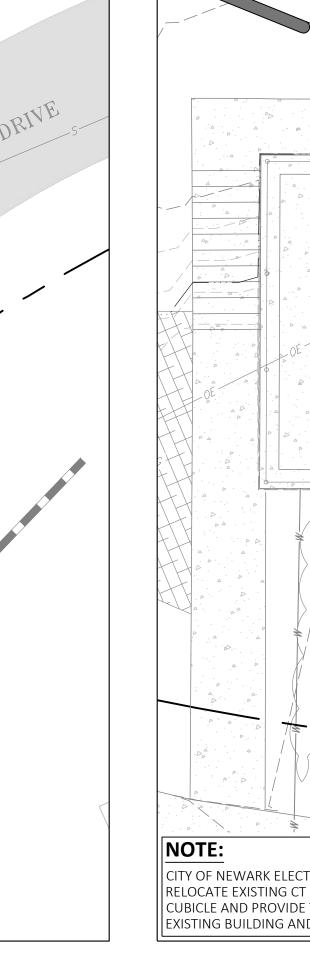
METHODS, PROCEDURES AND THE SEQUENCES OFCONSTRUCTION (OTHER THAN THAT NOTED ON THE DRAWINGS) ARE THE RESPONSIBILITY OF

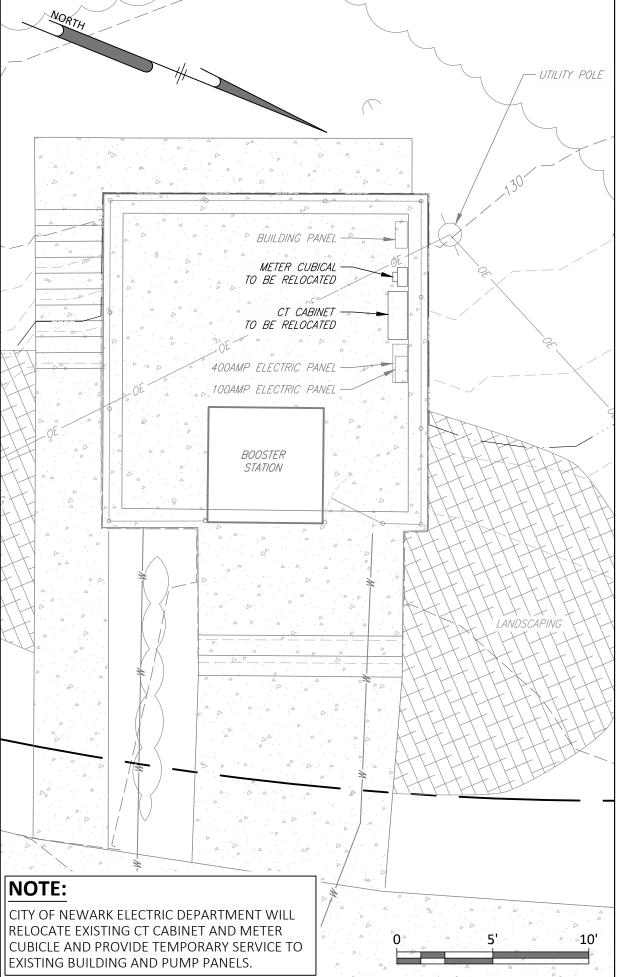
11. ALL DEBRIS SHALL BE REMOVED ON A DAILY BASIS TO MINIMIZE TRAFFIC INTERRUPTIONS. CONTRACTOR IS RESPONSIBLE FOR SECURING STORAGE AND

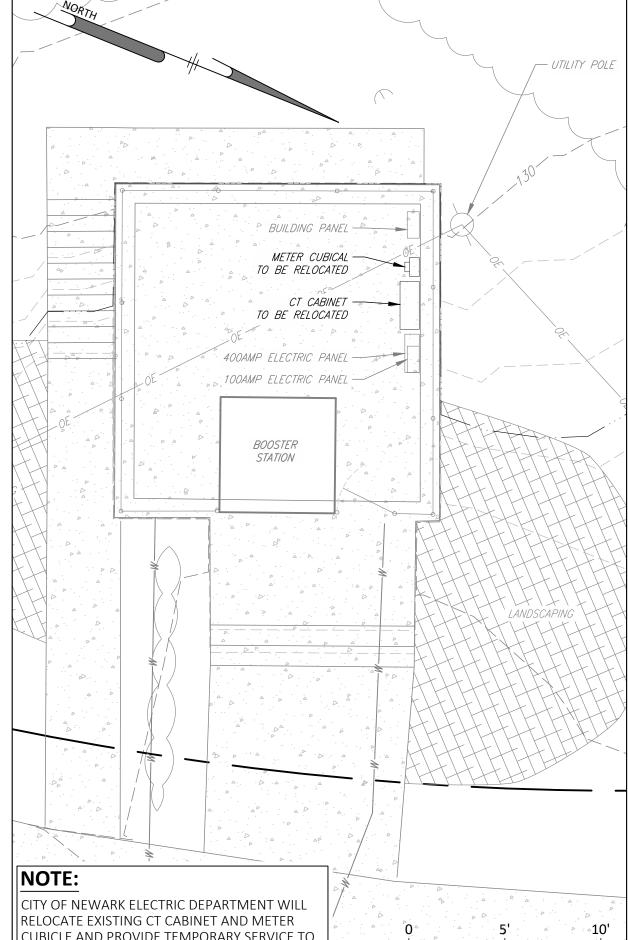
12. CONTRACTOR SHALL PROTECT AND MAINTAIN EXISTING STREET LIGHTING AND TRAFFIC SIGNAL FACILITIES. ANY STREET LIGHTING AND TRAFFIC SIGNAL EQUIPMENT, CABLE, AND CONDUIT FACILITIES AFFECTED BY THE WORK SHALL BE REPLACED IN KIND AT THE SOLE EXPENSE OF THE

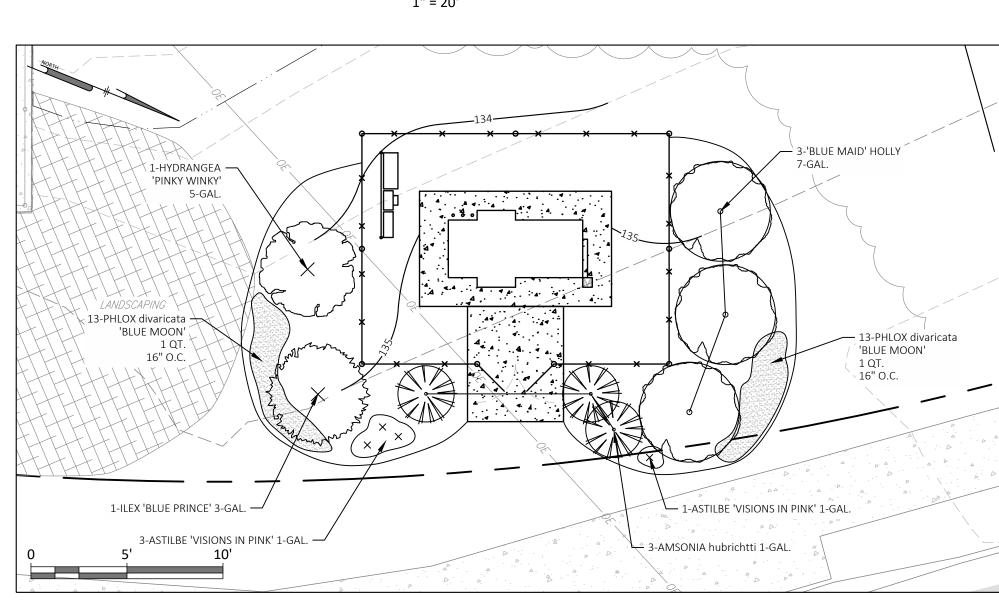
13. THE CONTRACTOR SHALL AT ALL TIMES MAINTAIN A JOBSITE FREE OF LITTER AND TRASH. THE CONTRACTOR IS RESPONSIBLE FOR REVIEWING THE SITE







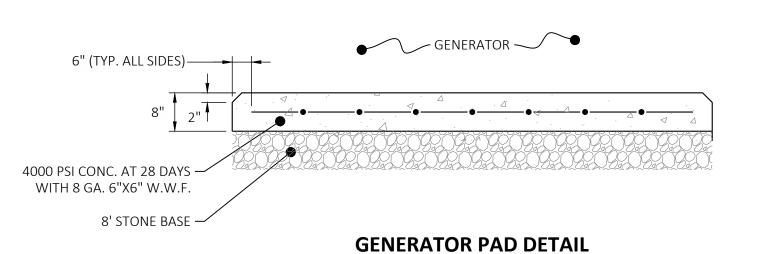




LANDSCAPE PLAN

MISS UTILITY **DELMARVA** BEFORE YOU DIG CALL

1-800-282-8555 PROTECT YOURSELF, GIVE TWO **WORKING DAYS NOTICE**





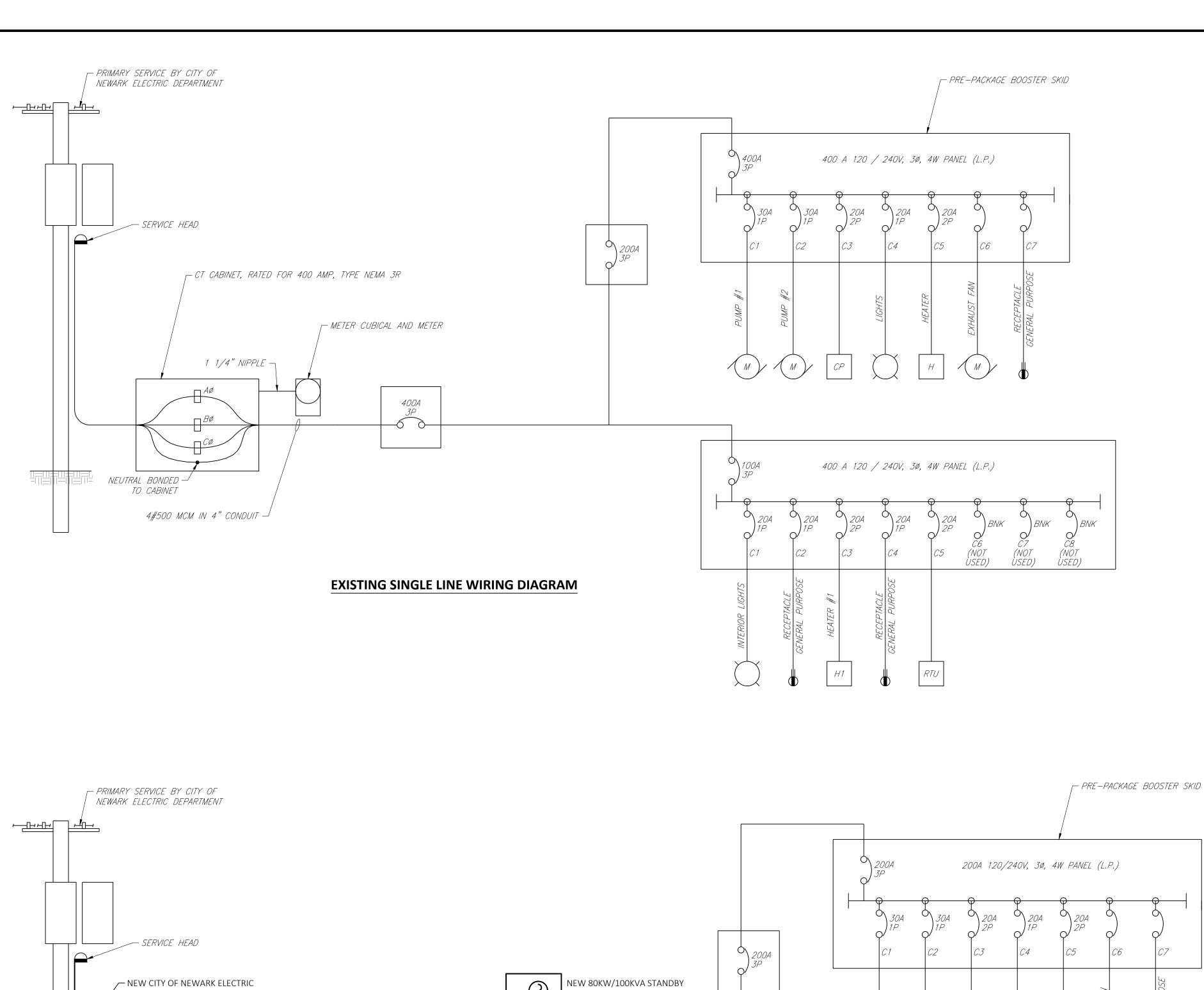


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ACCORDANCE WITH THE LATEST CITY OF NEWARK STANDARDS AND SPECIFICATIONS AN IN COMPLIANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 AND THE RULES AND REGULATIONS THERETO.

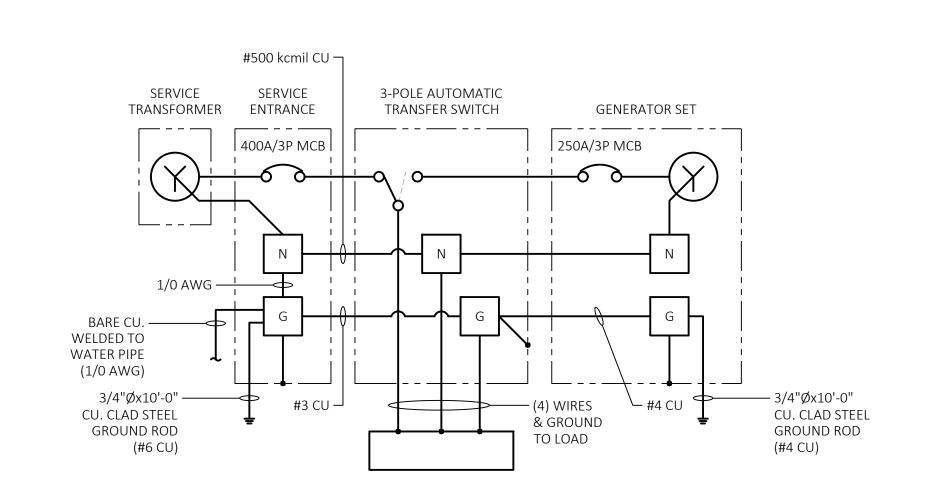
DATE: 2019-07-23 SCALE: 1" = 5 DRAWN BY: APPROVED BY:

DRAWING:

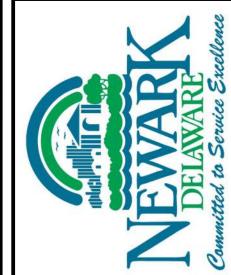


ELECTRICAL NOTES

- 1. CONTRACTOR SHALL INSTALL ALL EQUIPMENT, RACEWAYS, WIRING, GROUNDING AND BONDING AND PERFORM ALL WORK TO CONFORM TO THE LATEST EDITION OF THE NATIONAL ELECTRIC CODE, NFPA 70.
- 2. CONTRACTOR IS RESPONSIBLE FOR VISITING THE JOB SITE PRIOR TO STARTING WORK TO EXAMINE EXISTING CONDITIONS THAT MAY AFFECT HIS WORK.
- 3. CONTRACTOR TO VERIFY ALL CONDITIONS AT SITE PRIOR TO BIDDING AND BEGINNING OF WORK. ALL WORK SHALL BE SCHEDULED AND COORDINATED WITH OTHER CONTRACTORS. CONTRACTOR SHALL FURNISH ALL INFORMATION NEEDED BY OTHER CONTRACTORS THAT ARE NECESSARY TO COMPLETE THEIR WORK.
- 4. CONTRACTOR SHALL COORDINATE WORK SCHEDULE WITH THE OWNER. WORK SHALL ALLOW FOR DAILY OPERATION OF THE PROJECT SITE WITHOUT INTERRUPTION. CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION FROM THE OWNER TO DE-ENERGIZE ANY OPERATING EQUIPMENT OR DISRUPT ANY COMMUNICATION LINE.
- 5. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING & OBTAINING APPROVAL FOR ALL WORK INVOLVING UTILITIES. CONTRACTOR SHALL PROVIDE ALL
- CUSTOMER WORK AS REQUIRED.
- 6. CONTRACTOR SHALL BE RESPONSIBLE FOR DISCOVERY AND MARKING OF ALL UNDERGROUND UTILITIES IN PROJECT AREA. ANY DAMAGE CAUSED BY THIS CONTRACTOR TO EXISTING UNDERGROUND UTILITIES, DEEMED BY THE OWNER TO REMAIN INTACT, SHALL BE RESTORED TO ORIGINAL CONDITION. ALL REPAIRS SHALL BE INCURRED AT THE EXPENSE OF THE CONTRACTOR ALONE. REPAIRS SHALL BE IN ACCORDANCE WITH ALL CURRENT APPLICABLE LOCAL, STATE AND FEDERAL CODES.
- 7. ALL MATERIAL SHALL BE NEW AND WHERE APPLICABLE SHALL BE UL LABELED OR APPROVED. ALL REQUIRED WIRING FOR POWER AND CONTROL SHALL BE PROVIDED BY THE CONTRACTOR. NO SUBSTITUTIONS WILL BE ALLOWED WITHOUT THE WRITTEN PERMISSION OF THE ENGINEER.
- 8. CONTRACTOR SHALL PERFORM ALL CUTTING AND CORING FOR THE PASSAGE OF CONDUIT THROUGH WALLS, PADS, FLOORS, FOUNDATIONS, ROADWAYS & OTHER SURFACES WHERE NECESSARY TO INSTALL HIS WORK. CONTRACTOR SHALL CLOSE ALL SUCH OPENINGS AROUND CONDUIT WITH MATERIAL EQUIVALENT TO THAT REMOVED AND RESTORE TO EXISTING FIRE RATING. ALL EXPOSED SURFACES SHALL BE PATCHED TO MATCH EXISTING CONDITIONS.
- 9. CONTRACTOR SHALL PROVIDE ALL NECESSARY COMPONENTS REQUIRED FOR MAKING FINAL CONNECTIONS OF ALL EQUIPMENT INSTALLED OR MODIFIED AS PART OF
- 10. UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL DEMONSTRATE THAT THE INSTALLATIONS ARE COMPLETE AND IN PROPER OPERATING ORDER WITH WIRING FREE FROM GROUNDS OR SHORTS AND WITH EQUIPMENT PROPERLY GROUNDED AND BONDED PER THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NFPA-70). THE CONTRACTOR SHALL TEST ALL EQUIPMENT AND DEVICES INSTALLED TO THE SATISFACTION OF THE OWNER.
- 11. CONTRACTOR SHALL PROVIDE AND PAY FOR A CERTIFICATE OF FINAL INSPECTION AND APPROVAL BY A STATE APPROVED LICENSED ELECTRICAL INSPECTION AGENCY.
- 12. ELECTRICAL EQUIPMENT MOUNTED TO CONCRETE OR MASONRY WALLS SHALL BE INSTALLED WITH A 1/4" SPACER BETWEEN THE EQUIPMENT AND THE WALL. SPACER SHALL BE STAINLESS STEEL, PVC, OR NYLON.
- 13. ALL RACEWAYS SHALL BE ROUTED PARALLEL OR PERPENDICULAR TO BUILDING LINES.
- 14. ELECTRICAL SYSTEM LAYOUTS ARE GENERALLY DIAGRAMMATIC AND LOCATION OF CONDUITS, OUTLETS AND EQUIPMENT IS APPROXIMATE; EXACT ROUTING OF RACEWAYS AND LOCATIONS OF EQUIPMENT SHALL BE GOVERNED BY STRUCTURAL CONDITIONS AND OBSTRUCTIONS. THIS IS NOT TO BE CONSTRUED TO PERMIT REDESIGNING OF SYSTEMS; ALL OUTLETS AND EQUIPMENT SHALL BE INTERCONNECTED AS INDICATED. LOCATE AND INSTALL EQUIPMENT REQUIRING MAINTENANCE AND OPERATION SO THAT EQUIPMENT IS READILY ACCESSIBLE. ANY RELOCATION OF EQUIPMENT MUST BE APPROVED BY THE ENGINEER OR AUTHORIZED REPRESENTATIVE BEFORE INSTALLATION. COORDINATE THE INSTALLATION OF WIRING, RACEWAYS, OUTLET BOXES, SLEEVES, SWITCHES, ETC. WITH OTHER TRADES TO ELIMINATE CONFLICTS WITH PROPER CLEARANCES AND ACCESS.
- 15. ALL GROUNDING AND BONDING CONDUCTORS SHALL BE COPPER, SIZED PER THE LATEST EDITION OF THE NATIONAL ELECTRIC CODE (NEPA-70), AND AS INDICATED ON PROJECT DRAWINGS. REFER TO SPECIFICATION DOCUMENTATION FOR EXACT REQUIREMENTS.
- 16. ALL CONDUIT ENTRY POINTS SHALL BE COORDINATED WITH OWNER. PROVIDE PULL-BOX AT ENTRY POINTS UNLESS OTHERWISE NOTED.
- 17. GAS SERVICE CONTRACTOR TO COORDINATE WITH DELMARVA POWER AND THE CITY OF NEWARK FOR CONNECTION TO MAIN GAS LINE LOCATED AT DOVE DRIVE. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED CONNECTIONS AND APPURTENANCES TO MAKE THE FUELING SYSTEM TO THE GENERATOR COMPLETE AND OPERATIONAL PER THE CITY OF NEWARK'S SATISFACTION.
- 18. CONDUITS SHALL REMAIN PVC BELOW GRADE



ELECTRIC SERVICE/GENERATOR NEUTRAL/GROUND DIAGRAM



DELREM DELAWA OSTER

STATION

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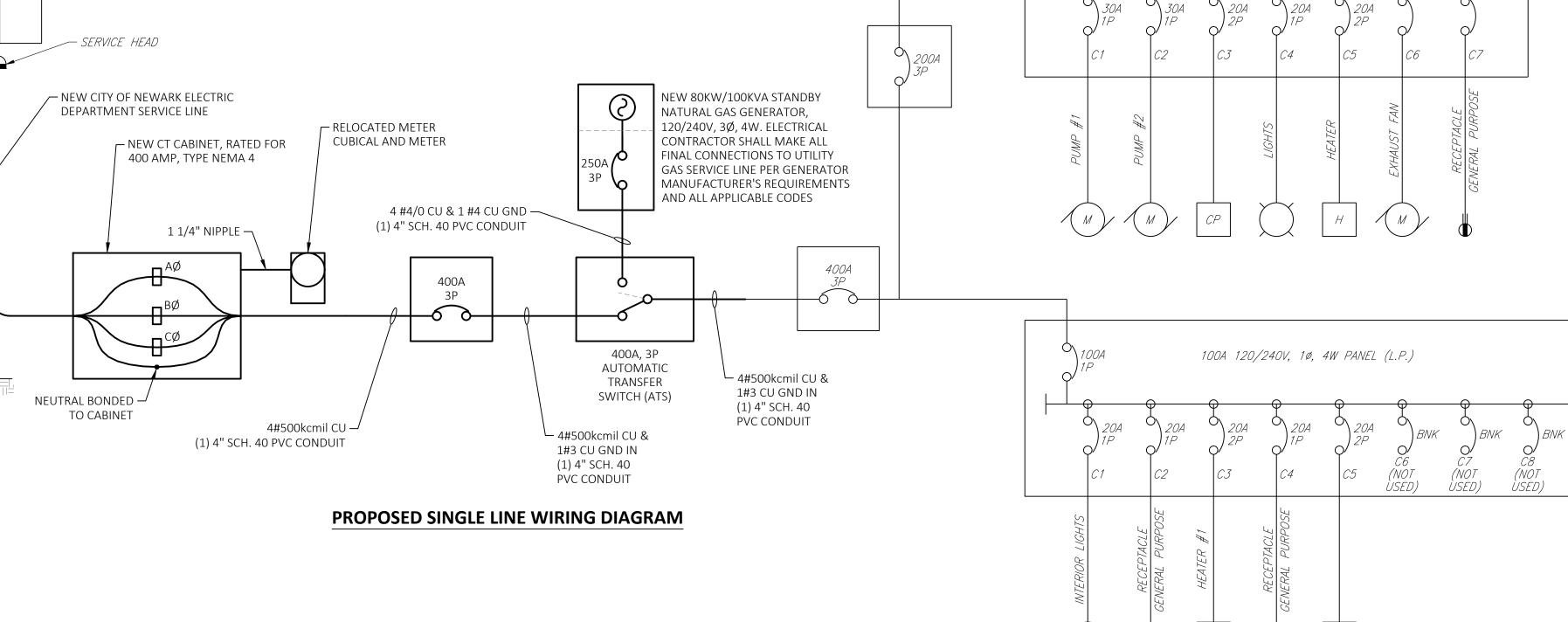
DATE: 2019-07-23 1" = 5 SCALE: DRAWN BY: MWF

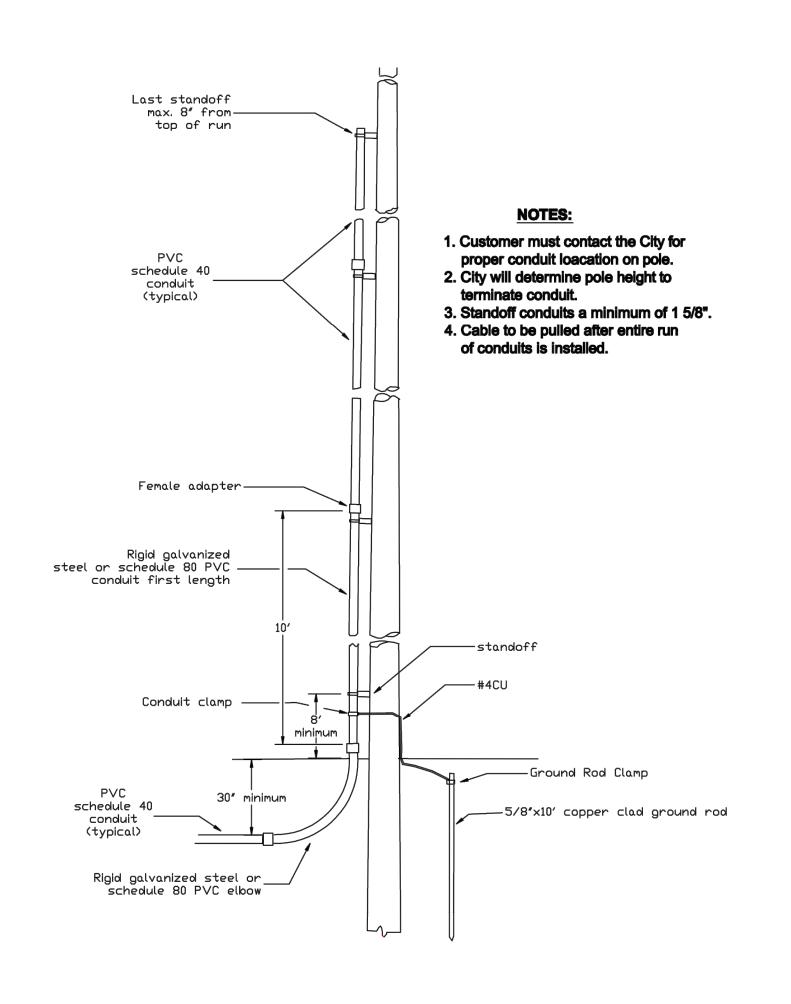
RULES AND REGULATIONS THERETO.

DRAWING:

APPROVED BY:

3 OF 5





Meter socket height and gas meter clearance.

Any obstruction above meter

Nearest side wall or obstruction

O

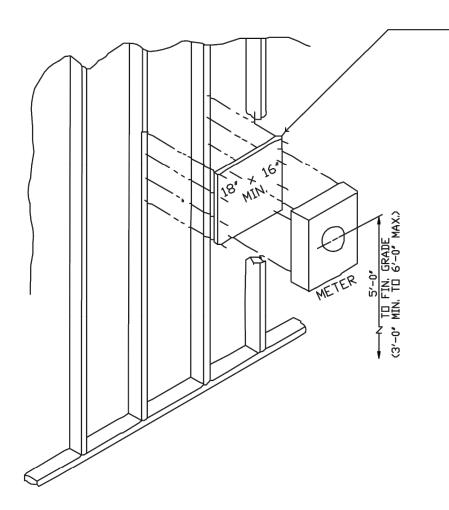
Clear working space for padmount equipment

Fig. 9

2' Min. 3' Preferred

Fig. 14

Fig. 8



— DUTDDDR PLY.- I / 2" MIN.
NDT APPLICABLE TO BRICK, BLOCK, DR STONE

NOTES:

- 1. METER BOX SUPPLIED AND INSTALLED BY CONTRACTOR.
- 2. IN ALL CASES APPROVAL FOR METER LOCATION MUST BE OBTAINED FROM THE CITY BEFORE INSTALLATION.
- 3. SEE FIGURE 5 FOR STANDARD UNDERGROUND INSTALLATION.

Fig. 16

TYPICAL C.T. CABINET INSTALLATION

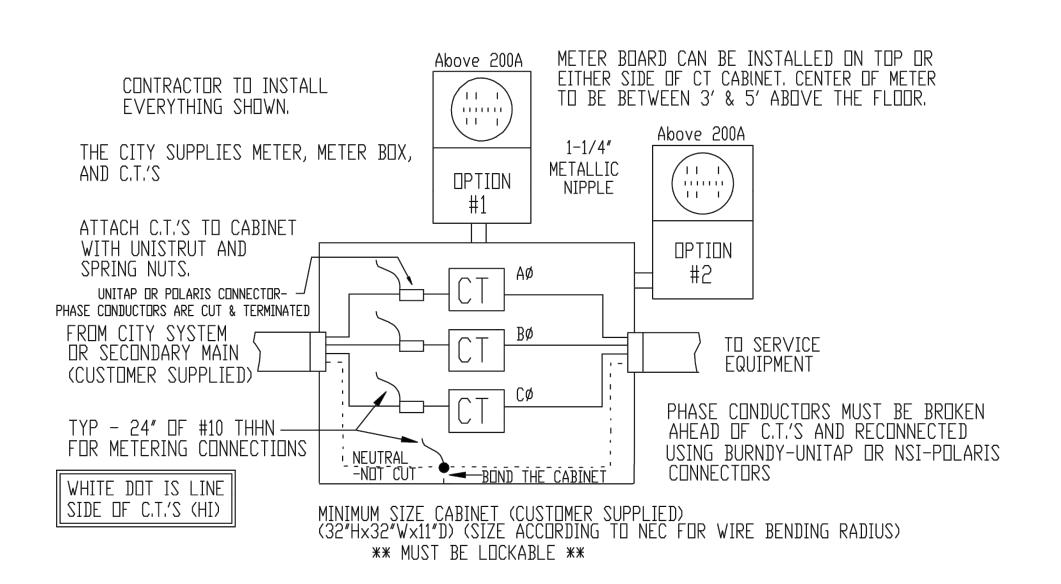


Fig. 13

Approved Padmount Transformer Secondary Lugs for 3 phase transformers NO EXCEPTIONS

Six conductors per phase maximum

Conductor AL/CU	Burndy Par
1/0 Stranded	YA25A
2/0 Stranded	YA26A
4/0 Stranded	YA28A
250 kcmil	YA29A
350 kemil	YA31A
500 kemil	YA34A
600 kemil	YA36A
750 kemil	YA39A
1000 kcmil	YA44A

Single Phase Padmounts up to 75kVA – six 350 kcmil conductors maximum per spade 100kVA – six 500 kcmil conductors max, contingent on space for conduits – contact Electric Department for prior approval – connectors supplied by the City of Newark

Standard Primary Pull Box

36"X48"X36" Deep High Density Polyethylene Pencell PEM3648X with 2 PEM3648-6 Spacers Identification- ELECTRIC Note: Contact City of Newark Electric Department if pullbox will be subject to vehicular traffic

Approved Aerial Commercial Service Entrance Connector

(For use on customer owned service conductors connected to aerial City owned conductors – usually triplex or quadriplex)

Burndy (FCI) - Unitap or NSI Industries – Polaris System

Note: Contact City of Newark Electric Department to review number of conductors City will supply.

Approved Secondary Lugs for conductors directly connected to Aerial Transformer
Bushings

Up to 500 kcmils

600 kcmil

750 kcmil

1000 kcmil

City supplies 6 position eyebolt connectors

YA36A3

YA39A5

YA44A3

CITY OF NEWARK JOINT TRENCHING WITH COMCAST CABLE & VERIZON TELEPHONE

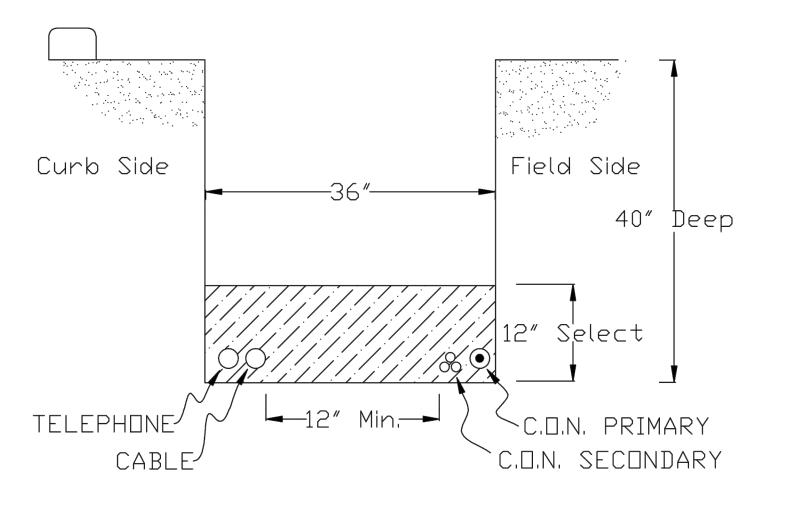


Fig. 17



BLIC WORKS AND WATERSOURCES DEPARTMENT
220 SOUTH MAIN STREET
NEWARK, DELAWARE 19711
(302) 366-7000

Control of the Contro

1/4/2021 1 FINAL BID SET MWF
DATE NO. REVISIONS BY

CONTRACT NO. 21-01

ELECTRICAL DETAILS

109 DELREM DR

NEWARK, DELAWARE 19711

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 DATE:
 2019-07-23

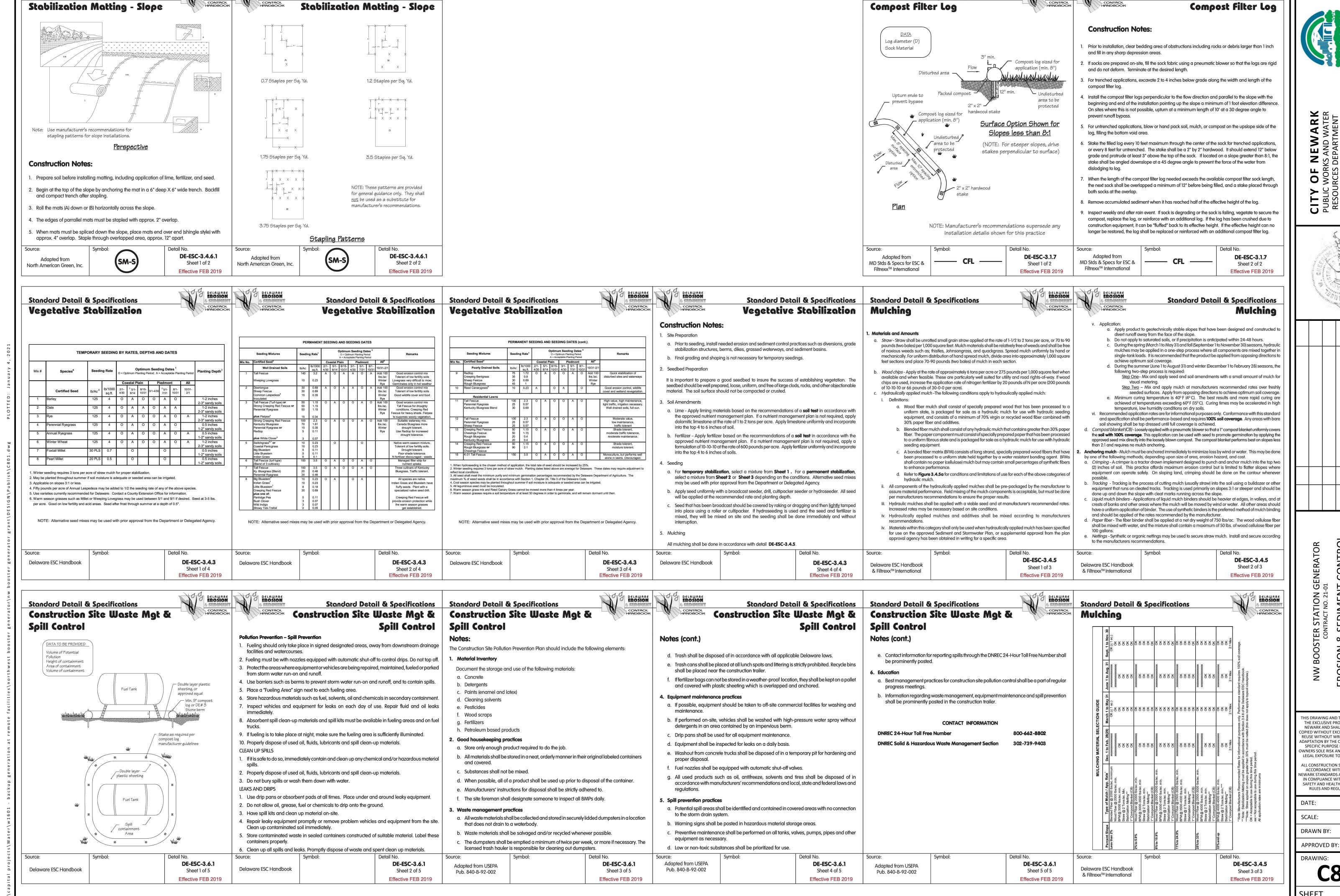
 SCALE:
 1" = 5'

 DRAWN BY:
 MWF

 APPROVED BY:
 EJR

DRAWING: **E201**

SHEET 4 OF 5



Standard Detail & Specifications

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